

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application:

1. (Previously Presented) A method comprising:

sending a first loop packet from a first port in a switching device of a first network running a loop avoidance protocol instance, the first loop packet including a first identifier with a first reference to the first port;

receiving a second loop packet at the switching device, the second loop packet including a second identifier with a second reference to a second port;

comparing the second reference with the first reference; and

detecting the loop in a second network when the first and second references match, the second network communicably coupled to the first network, the second network not running the first avoidance protocol instance.
2. (Previously Presented) The method as recited in claim 1, further comprising blocking at least one of the ports in the first switching device when the first and second references match.
3. (Original) The method as recited in claim 2, wherein the blocking includes blocking the port which sent the first loop packet.
4. (Original) The method as recited in claim 2, wherein the blocking includes blocking the port which received the second loop packet.

5. (Previously Presented) The method as recited in claim 2, further comprising, when the second reference does not match the first reference, for a defined period of time, opening the at least one of the ports in the switching device which was blocked.
6. (Previously Presented) The method as recited in claim 1, comprising when the second identifier does not correspond to any of the ports in the switching device, forwarding the second loop packet to another switching device.
7. (Previously Presented) The method as recited in claim 1, wherein the first identifier further includes a third reference to the switching device, the second identifier further includes a fourth reference to another switching device, and the method further comprises:
comparing the third and fourth references; and
when the third reference matches the fourth reference and the first reference does not match the second reference, dropping the second loop packet.
8. (Original) The method as recited in claim 1, wherein the first network is running a first instance of a spanning tree protocol and the second network is not running the first instance of the spanning tree protocol.
9. (Original) The method as recited in claim 1, wherein the first identifier includes a third reference to a VLAN where the first port resides.
10. (Previously Presented) A system comprising:

a first network configured to run a first loop avoidance protocol instance, the first network communicably coupled to a second network, the second network not configured to run the first loop avoidance protocol instance;

a switching device in the first network;

a first port in the switching device; wherein

the first port is configured to send a first loop packet including a first identifier with a first reference to the first port;

the switching device is configured to receive a second loop packet, the second loop packet including a second identifier with a second reference to a second port; and

the switching device is further configured to determine the second reference, compare the second reference with the first reference, and detect the loop in a second network when the first and second references match.

11. (Previously Presented) The system as recited in claim 10, wherein the switching device further blocks at least one of the ports in the switching device when the first and second references match.
12. (Original) The system as recited in claim 11, wherein the blocking includes blocking the port which sent the first loop packet.
13. (Original) The system as recited in claim 11, wherein the blocking includes blocking the port which received the second loop packet.

14. (Previously Presented) The system as recited in claim 11, wherein when the second reference does not match the first reference for a defined period of time, the first switching device opens the at least one of the ports which was blocked.
15. (Previously Presented) The system as recited in claim 10, wherein when the second identifier does not correspond to any of the ports in the switching device, the switching device forwards the second loop packet to another switching device.
16. (Previously Presented) The system as recited in claim 10, wherein the first identifier further includes a third reference to the switching device, the second identifier further includes a fourth reference to another switching device, and the switching device further:
compares the third and fourth references; and
when the third reference matches the fourth reference and the first reference does not match the second reference, the switching device drops the second loop packet.
17. (Original) The system as recited in claim 10, wherein the first network is running a first instance of a spanning tree protocol and the second network is not running the first instance of the spanning tree protocol.
18. (Original) The system as recited in claim 10, wherein the first identifier includes a third reference to a VLAN where the first port resides.
19. (Previously Presented) A switching device comprising:
a first port configured to:

send a first loop packet including a first identifier with a first reference to the first port;
the switching device configured to:

receive a second loop packet, the second loop packet including a second identifier with
a second reference to a second port;

determine the second reference;

compare the second reference with the first reference; and

detect a loop in a second network when the first and second references match, the

second network communicably coupled to a first network comprising the switching
device, the first network running a first loop avoidance protocol instance, the
second network not running the first loop avoidance protocol.

20. (Previously Presented) The switching device as recited in claim 19, wherein the switching
device further blocks at least one of the ports in the switching device when the first and
second references match.

21. (Previously Presented) The switching device as recited in claim 20, wherein the blocking
includes blocking the port which sent the first loop packet.

22. (Previously Presented) The switching device as recited in claim 20, wherein the blocking
includes blocking the port which received the second loop packet.

23. (Previously Presented) The switching device as recited in claim 20, further comprising,
when the second reference does not match the first reference for a defined period of time,
opening the at least one of the ports in the switching device which was blocked.

24. (Previously Presented) The switching device as recited in claim 19, wherein when the second identifier does not correspond to any of the ports in the switching device, the switching device forwards the second loop packet to another switching device.
25. (Previously Presented) The switching device as recited in claim 19, wherein the first identifier further includes a third reference to the switching device, the second identifier further includes a fourth reference to another switching device, and the switching device further:
compares the third and fourth references; and
when the third reference matches the fourth reference and the first reference does not match the second reference, the switching device drops the second loop packet.
26. (Previously Presented) The switching device as recited in claim 19, wherein the first identifier includes a third reference to a VLAN where the first port resides.
27. (Previously Presented) A computer readable storage medium including computer executable code for performing a method, the method comprising:
sending a first loop packet from a first port in a switching device of a first network, the first loop packet including a first identifier with a first reference to the first port;
receiving a second loop packet at the switching device, the second loop packet including a second identifier with a second reference to a second port;
determining the second reference;
comparing the second reference with the first reference; and

detecting the loop in a second network when the first and second references match, the second network communicably coupled to the first network, the second network not running the first avoidance protocol instance.

28. (Original) The storage medium as recited in claim 27, wherein the code further enables the step of blocking at least one of the ports in the first network when the first and second references match.
29. (Original) The storage medium as recited in claim 28, wherein the blocking includes blocking the port which sent the first loop packet.
30. (Original) The storage medium as recited in claim 28, wherein the blocking includes blocking the port which received the second loop packet.
31. (Previously Presented) The storage medium as recited in claim 28, wherein the code further enables the step of opening at least one of the ports in the switching device which was blocked when the second reference does not match the first reference for a defined period of time.
32. (Previously Presented) The storage medium as recited in claim 27, wherein when the second identifier does not correspond to *any* of the ports in the switching device, the code further enables the step of forwarding the second loop packet to another switching device.

33. (Previously Presented) The storage medium as recited in claim 27, wherein the first identifier further includes a third reference to the switching device, the second identifier further includes a fourth reference to another switching device, and the code further enables the steps of
- comparing the third and fourth references; and
- when the third reference matches the fourth reference and the first reference does not match the second reference, dropping the second loop packet.
34. (Original) The storage medium as recited in claim 27, wherein the first identifier includes a third reference to a VLAN where the first port resides.
35. (Previously Presented) A system comprising;
- a first network configured to run a first loop avoidance protocol instance, the first network communicably coupled to a second network, the second network not configured to run the first loop avoidance protocol instance;
- a plurality of switching devices in the first network;
- a plurality of ports, at least one port for each of the switching devices; wherein each port connected to the second network is configured to send a respective first loop packet including a first identifier with a first reference to the respective port;
- each switching device is configured to receive a respective second loop packet, each second loop packet including a respective second identifier with a respective second reference to a respective second port; and
- each respective switching device is further configured to determine the respective second reference, compare the respective second reference with the respective first reference,

and detect a loop in the second network when the respective first and respective second references match.

36. – 39. (Cancelled)

40. (Original) The method as recited in claim 2, wherein the blocking includes blocking one of the port which sent the first loop packet and the port which received the second loop packet based on the respective port IDs.

41. (Previously Presented) The system as recited in claim 11, wherein the switching device blocks one of the port which sent the first loop packet and the port which received the second loop packet based on the respective port IDs.

42. (Previously Presented) The switching device as recited in claim 20, wherein the switching device blocks one of the port which sent the first loop packet and the port which received the second loop packet based on the respective port IDs.

43. (Original) The storage medium as recited in claim 28, wherein the blocking includes blocking one of the port which sent the first loop packet and the port which received the second loop packet based on the respective port IDs.

44. (Previously Presented) An apparatus comprising:

means for sending a first loop packet from a first port in a switching device of the first network running a loop avoidance protocol instance, the first loop packet including a first identifier with a first reference to the first port;

means for receiving a second loop packet at the switching device, the second loop packet including a second identifier with a second reference to a second port;

means for comparing the second reference with the first reference; and

means for detecting the loop in a second network when the first and second references match, the second network communicably coupled to the first network, the second network not running the first avoidance protocol instance.

45. (Previously Presented) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method, the method comprising:

sending a first loop packet from a first port in a switching device of the first network running a loop avoidance protocol instance, the first loop packet including a first identifier with a first reference to the first port;

receiving a second loop packet at the switching device, the second loop packet including a second identifier with a second reference to a second port;

comparing the second reference with the first reference; and

detecting the loop in a second network when the first and second references match, the second network communicably coupled to the first network, the second network not running the first avoidance protocol instance.